

Sylvie DERENNE

Biogeochemistry Department - METIS laboratory

Sorbonne University - 4 place Jussieu - 75252 Paris cedex 05

59 years old, married, 2 children

- 2016 **Distinguished Senior Scientist at the National Scientific Research Center (CNRS)**
Professor at Ecole Pratique des Hautes Etudes (EPHE)
- 2008 Senior Scientist "1st class" CNRS
- 2000 Senior Scientist "2nd class" CNRS
- 1989 Junior Scientist (Chargée de Recherche) "1st class" CNRS
- 1984 CNRS Junior Scientist permanent position "2nd class"

EDUCATION

- 1994 "Habilitation à diriger des recherches", Chemistry, Université P. et M. Curie
- 1988 PhD, Université P. et M. Curie, Paris
- 1984 "Doctorat de 3^{ème} cycle" (a 2-year short PhD), Université Paris-Sud, Orsay
- 1978 – 1983 Ecole Normale Supérieure, Fontenay-aux-Roses (a leading school for teaching and research)
- 1982 -Master 2 in Organic Chemistry, Université Paris-Sud, Orsay
- 1981 -High school teaching degree (Agrégation) in Chemistry
- 1980 -Master 1 in Physics and Chemistry, Université Paris-Sud, Orsay
-Secondary school teaching degree (CAPES) in Physics and Chemistry

AWARDS

- 2019 **Alfred Treibs award** of the Organic Geochemistry Division of the Geochemical Society
Geochemistry Fellow from the Geochemical Society and European Association of Geochemistry
- 2010 **Knight in the Legion of Honor** (the highest French decoration, nominated by the Ministry of Higher Education, Research and Innovation)
- 2009 -**Grammaticakis-Neumann Award** (Chemistry) from the French Academy of Sciences
-**CNRS Silver Award**
- 2001 **ISI Web of Science award** for 6 major papers.
- 1992 **Best paper award** of 1991 from the Organic Geochemistry Division of the American Chemical Society

PUBLICATIONS

I published **216 papers** in the main journals of Geochemistry and Cosmochemistry but also of Analytical Chemistry, **6 book chapters**, co-authored **278 oral** presentations (**30 invited** talks) and **250 poster** communications in national and international meetings (see attached list)

SCIENTIFIC SUPERVISION, ANIMATION AND MANAGEMENT

Responsibilities

Since January 2014: **Deputy-director of METIS** laboratory (Milieux environnementaux, transferts et interactions sols-hydrosystèmes, 53 permanent staff), **Head of the Biogeochemistry department** of the lab (25 permanent staff)

2005-2013: **Deputy-director of BioEMCo** laboratory (Biogeochemistry and ecology of terrestrial environments), **Head of the geochemistry team**

Management of scientific research

- Locally:

Since 2018: **Special adviser to the Deputy Dean** in charge of research at Sorbonne Université

Since 2013: Representative of Sorbonne Université at the **Doctoral School Council**.

2011-2015: Member of the **Research Advisory Board** of UPMC.

2002-2008: Elected member of the **Scientific Council of Paris School of Chemistry (ENSCP)**

- Nationally:

Since 2015: Member of the **Disciplinary Commission for the CNRS** Director of Research

Since 2014: **Member of the scientific committee of the National Program of Planetology of CNRS**

2014-2016: President (vice-president in 2013) of the **French Association of Organic Geochemists**.

2006-2016: Member of **Commission** at the Earth Sciences Institute (INSU) of CNRS.

2006- 2009: Member of the **Scientific Council of the Environment Department** of CNRS.

- Internationally:

Since 2011: Member of the **award committee** of the European Association of Organic Geochemistry (EAOG).

1999-2007: Secretary of the **EAOG board** (~ 500 members).

2002: **Panelist** of the scientific committee of the «Integrated Carbon Cycle Research Program» of **NSF** at Arlington (USA)

2001 – 2003: Member of the **International Space Science Institute « Astrobiology » team**.

ASSESSMENT WORK

Editorial handling:

Since 2007: Member of the **Editorial Board** of the Journal of Analytical and Applied Pyrolysis

Since June 2005: **Associate Editor** of Organic Geochemistry

Guest editor of 2 special issues of Organic Geochemistry

Reviewer of **articles** (10 to 15 per year) and **proposals** (NSF, NERC, ACS, ANR, Labex, ...).

Reviewer of **PhD theses**, **18 in France** and **5 abroad** and of **5 Habilitations**, as well as for a **tenure application** at Santa Cruz University (USA). **Chair of 6 PhD thesis committees** since 2013.

Staff recruitment and promotion

Ecole Pratique des Hautes Etudes: Member of the "**Bonus**" committee and of an **Engineer recruitment committee** (2014)

Institute of Developmental Research (IRD): Member of the **Scientific Committee** in Ecology (2012-2013) and Earth Sciences (2014-2015) (recruitment and promotion of scientists, evaluation of position evolution)

Universities: Member/chair of **11 selection committees** since 2012 (7 Professor, 3 Assistant-Professor, 1 Technician) and member of the "**Research bonus**" committee of UPMC (2012-2014).

National Institute for Agronomic Research (INRA): Member of **6 promotion and recruitment committees** (junior and senior scientists).

Structure assessment

Participation in **12 laboratory audit committees** since 2010 in Chemistry as well as in Earth Sciences.

Expert for the assessment of the International Laboratory "Paleotracés" IRD (Rio de Janeiro, Brazil) in 2013.

Assessment of the **labelling of 2 long-term observatories** (2014-2015)

PARTNERSHIP AND VALORIZATION

PI of current scientific proposals supported by "**Région Ile-de-France**" (PhD and post-doctoral grants), **PIREN Seine** program, **National Spatial Agency (CNES)** Exobiology Program (yearly application since 2002), the **National Program of Planetology (CNRS-INSU)** (yearly application since 2000) and **Institut Français du Pétrole** (PhD grant).

PI of numerous achieved scientific proposals supported by **University, CNRS, Région Ile-de-France, Seine Aval, Institut français du Pétrole**

Current participation to proposals coordinated by some members of my team supported by Sorbonne Université, CNRS and Seine Aval.

ORGANIZATION OF INTERNATIONAL MEETINGS

I organized a **Symposium of the American Chemical Society** (1999) and I was invited to organize **4 sessions and to be theme chair at Goldschmidt Conferences**. I was involved in the **scientific committee** of 2 International Meetings in Organic Geochemistry (1999, 2011) and of the Carbon International Meeting (2009). As the secretary of the EAOG board for 8 years, I contributed to the preparation of all the EAOG international meetings during this period.

TEACHING AND OUTREACH ACTIVITIES

Organic geochemistry being barely taught in France, I only had a few occasions to teach. However, with the **creation** in 2002 of a 60H **teaching module** of the **Master ParisTech** « Wastewater, land and waste management and treatment » that I had **co-headed** until 2010, I had the opportunity to give lectures (\approx 15h/year).

I also gave some **occasional lectures** in Master's degree, doctoral school and to the Ecole Normale Supérieure de Lyon Chemistry students.

I presented Organic Geochemistry and Organic Cosmochemistry in **2 broad audience conferences** (2011, 2016) and to the "Association des professeurs de classes préparatoires" (2011). In 2013, I published an article in the **Science section of the newspaper *Le Figaro***.

SUPERVISION OF YOUNG SCIENTISTS

I supervised **more than 30 interns** from the **Master "Analytical Chemistry"** of UPMC, "Quantitative methods in Geosciences" of IFP, "Marine Chemistry and Geochemistry" of UPMC, "Biological Oceanology" of UPMC, "Paleontology" of Université of Montpellier, "Physical, chemical and biological functioning of the continental biosphere" of UPMC, "Quantitative methods and modelling of sedimentary basins" of IFP, "Oceanology, meteorology and environment" of UPMC, "Geology, Geochemistry and Sedimentary Geophysics" of Université of Lille, "Earth (dynamics, resources and environment)" of Université de Nancy, "Materials Chemistry" of UPMC, "Biosciences of the environment" of Université de Marseille, and **Master 2** of Paris School of Chemistry, Continental Biosphere of UPMC, Soil Sciences of National Agronomical School, Marine sciences of Université de Brest.

Over the past few years, I have decided to progressively transfer this activity to the assistant professors and young scientists of my team, who still do not have defended their Habilitation to let them acquire more experience in supervision.

I supervised (or co-supervised) **29 PhD theses**, mainly from Université P. et M. Curie but also Université d'Orléans, Paris VII, Ecole des Mines, Université de Lille and Muséum National d'Histoire Naturelle and I **presently supervise 2 PhD students**. I also supervised **2 foreign PhD students** for some short stays in my laboratory. In addition, I also supervised **9 post-doctoral interns** (including 4 foreigners).